

KAYE SCHOLER LLP
 DAVID S. BENYACAR
 DANIEL L. REISNER
 425 Park Avenue
 New York, NY 10022-3598
 Telephone: (212) 836-8000
 Facsimile: (212) 836-8689
dbenyacar@kayescholer.com
dreisner@kayescholer.com

Attorneys for Defendant
 TIME WARNER CABLE INC.

GOODWIN PROCTER LLP
 BENJAMIN HERSHKOWITZ
 JOHN F. PETRSORIC
 599 Lexington Avenue
 New York, NY 10022
 Telephone: (212) 813-8800
 Facsimile: (212) 355-3333
bhershkwitz@goodwinprocter.com
jpetsoric@goodwinprocter.com

Attorneys for Defendant
 CSC HOLDINGS, INC.

UNITED STATES DISTRICT COURT
 NORTHERN DISTRICT OF CALIFORNIA

In Re)
)
)
 ACACIA MEDIA TECHNOLOGIES)
 CORPORATION)
)
)
)
)
)
 _____)

Case No. C-05-0114JW

**ROUND 3 DEFENDANTS' SUBMISSION
 IDENTIFYING THE ESSENTIAL
 COMPONENTS OF THE PATENTEE-
 DEFINED "TRANSMISSION SYSTEM"
 AND "RECEIVING SYSTEM"**

Date: _____, 2007
 Time:
 Courtroom: Honorable James Ware

TABLE OF CONTENTS

PRELIMINARY STATEMENT 1

I) TRANSMISSION SYSTEM 2

 A) Essential Interconnected Components of the Patentee-Defined “transmission system” .. 4

 (i) “source material library” 111 4

 (ii) “identification encoder” 112 5

 (iii) “converter” 113 7

 (iv) “time encoder” 114 9

 (v) “precompression processor” 115 and “compression processor” 116 10

 (vi) “compressed data formatter” 117 and “compressed data library” 118 11

 (vii) “transmission format conversion CPU” 119 and “transmitter” 122 12

 (viii) “library system control computer” 1123 and “library access interface” 121 .. 15

 B) Construction of “transmission system” 17

 (i) basic transmission system 17

 (ii) claims limited to optional implementations of the transmission system 19

 (a) ’992 claim 20 19

 (b) ’992 claim 21 19

 (c) ’992 claim 42 20

 (d) ’992 claims 43-44 20

1	(e) summary of claims	20
2		
3	II) RECEIVING SYSTEM	22
4		
5	A) Essential Interconnected Components of the Patentee-Defined “receiving system”	23
6	(i) “transceiver” 201	23
7	(ii) “receiver format converter” 202	24
8	(iii) “storage” 203	24
9	(iv) “data formatter” 204	25
10	(v) “decompressor” 205	25
11	(vi) output converters 211-214	26
12	(vii) “user/computer interface” 207	26
13		
14	B) Construction of “receiving system”	27
15		
16	CONCLUSION	28
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

TABLE OF AUTHORITIES

STATUTES

35 U.S.C. § 112 3, 23

RULINGS

3rd Claim Construction Order 1, 17, 22

4th Claim Construction Order 1, 4, 17

5th Claim Construction Order 1, 2, 4,
22, 28

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28

The Third Claim Construction Order’s definition of “transmission system” includes an enumeration of components determined by the Court to be essential. The Court now finds that there are additional components which are essential, depending upon the steps of a particular claim. (*Id.* at 12.)

This memorandum is the Round 3 defendants' submission.

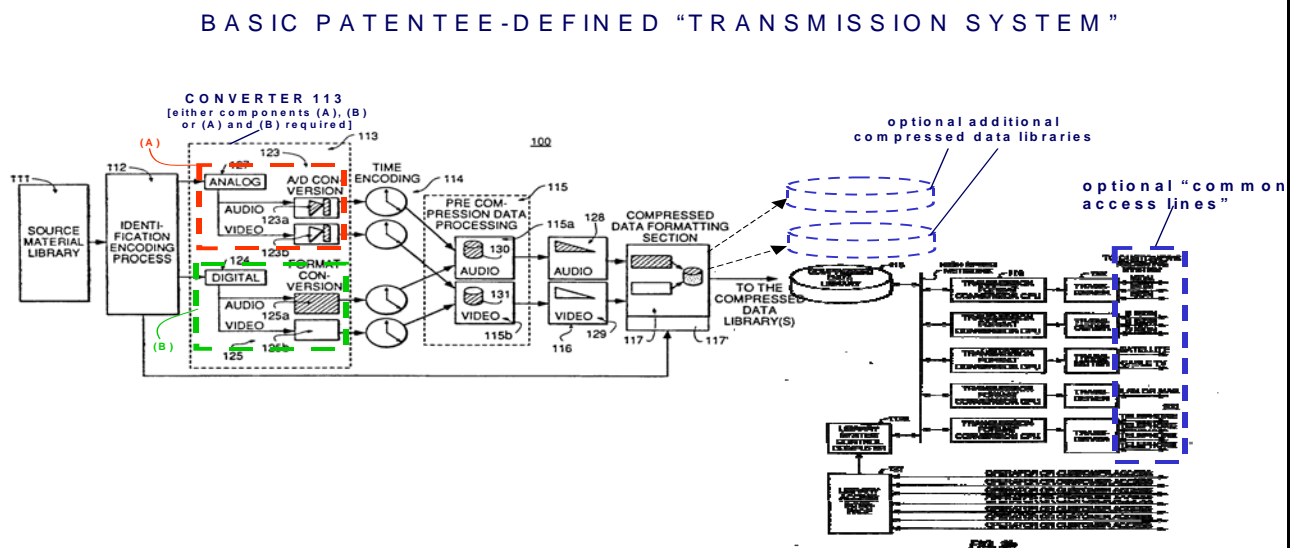
ROUND 3 DEFENDANTS' SUBMISSION IDENTIFYING THE ESSENTIAL COMPONENTS
OF THE PATENTEE-DEFINED "TRANSMISSION SYSTEM" AND "RECEIVING SYSTEM"
CASE NO. C-05-0114JW

I) TRANSMISSION SYSTEM

The Court's 5th CCO "affirms its previous finding that the inventors gave a specialized meaning to the phrase 'transmission system.'" (5th CCO at 6.) Specifically:

the Court has determined that the phrase "transmission system" was coined by the inventors to describe a system which stores physical items, extracts information from those items, encodes the information, processes and categorizes it and then stores the information in a form and location accessible to users. In addition, upon request from a user, the "transmission system" transmits information to a remote "receiving system" selected by a user. Thus, the Court has determined that "transmission system" must be construed in a way which recognizes its multiple features and functions. (*Id.*)

The interconnected components which perform these essential functions constitute the basic transmission system identified by the patentees. The specification does not describe any "transmission system" other than one which contains each of the essential components connected in order as explained below. These interconnected components are inherent in the patentee's use of the term "transmission system," and are required by all method claims which call for steps to be performed on, with or by a transmission system. This basic transmission system is depicted in Figure A below:



ROUND 3 DEFENDANTS' SUBMISSION IDENTIFYING THE ESSENTIAL COMPONENTS OF THE PATENTEE-DEFINED "TRANSMISSION SYSTEM" AND "RECEIVING SYSTEM"

CASE NO. C-05-0114JW

Each component of this basic transmission system is separately described in Section (I)(A) *infra*.² For the reasons explained, each component is not only essential, each must be interconnected to other components exactly as depicted or the system will not work. However, three of the essential components, converter 113, compressed data library 118 and (unnumbered) “common access lines” emanating from transceiver 122, have optional implementations. These optional implementations of specific essential components are explained in Section (I)(A) as well.

Appendix A contains the claim charts requested by the Court. These charts identify all of the components of the patentee-defined “transmission system” which are required for each method step performed on, with or by a transmission system. As the Court observed, the construction of “transmission system” for a specific claim could be more limited than the basic transmission system depicted above if a specific claim is limited to a specific one of the optional implementations for converter 113, compressed data library 118 or common access lines. Having now completed the charts and the analysis, we have determined that only certain dependent claims further limit the construction of “transmission system” beyond the basic transmission system.

² Nothing in this memorandum, including our identification of components in the charts attached as Appendix A and B, suggests or implies that the patentee-defined and claimed “transmission system” or “receiving system,” or any of their components, satisfy the requirements of 35 U.S.C. § 112. In fact, they do not. The claims lack written description, are not enabled and are indefinite. In some cases, the disclosure is so lacking that it is not even possible to identify a component in the transmission system or receiving system that corresponds to a method step required to be performed by, on or with a transmission system or receiving system. Appropriate motions will be made during the period for such motions as directed by the Court.

1 The charts of Appendix A also identify the components of the “transmission system”
2 required for each method step performed by or at a “central processing location.” These claim terms
3 also require the use of a “transmission system.” (*See* 4th CCO at 6 and 20.)
4

5 Finally, Section (I)(B) contains the construction of “transmission system” for each of
6 the asserted claims.

7 **A) Essential Interconnected Components of the Patentee-Defined “transmission system”**

8 Each of the essential components of a “transmission system” depicted above in
9 Figure A is addressed in turn below:

10 **(i) “source material library” 111**

11 All of the information processed, stored and transmitted by the “transmission system”
12 originates from physical items stored in a source material library. (6:10-19.)³ As the Court stated,
13 “‘transmission system’ was coined by the inventors to describe a system which stores physical
14 items...” (5th CCO at 6.) As such, the source material library is the essential first component of every
15 transmission system. There is no disclosure of a transmission system without a source material
16 library.
17

18 This essential nature of the source material library is confirmed repeatedly throughout
19 the specification and the prosecution history:
20

21 **The entire system includes a transmission system** and a reception system. **The**
22 **transmission system includes a source material library** from which a user makes a
23 selection. The selected program is processed and compressed for storage in a

24 ³ All citations herein to the common specification of the Yurt patents are to the ‘992
25 patent.
26
27
28

1 compressed data library. [Petition to Make Special at 2-3 (Benyacar 05/08/2006
2 Decl., Exh. B, Docket No. 161-3)] (emphasis added.)

3 **[T]he present invention comprises** a receiving system responsive to a user input
4 identifying a choice of an item stored in a **source material library**. . . (2:62-64)
(emphasis added.)

5 **Lang does not disclose a system** with one or more libraries **wherein a plurality of**
6 **system subscribers may access information stored in the film and tape library** or
7 libraries, and play back the selected information at a time and place selected by the
subscriber. (1:51-56) (emphasis added.)

8 **Lang does not teach** that user requests will cause items stored in a **source material**
9 **library** to be sent from a transmitter to a receiving system. [Petition to Make Special
at 7 (Benyacar 05/08/2006 Decl., Exh. B, Docket No. 161-3)] (emphasis added.)

10 Lang “envisions” a [source material] library at some time in the future . . . Applicants
11 submit that the incorporation of a [source material] library into the system in Lang is
12 only envisioned because of a lack of knowledge of how to incorporate such a library.
13 Applicants, however, have solved the problems left open in Lang. [10/01/1991
Amendment at 19 (Benyacar 08/08/2006 Decl., Exh. E, Docket No. 161-6.)]

14 [T]he first step of the distribution method **400** involves retrieving the information for
15 selected items in the **source material library 111**, upon a request by a user of the
distribution system (step **412**). (18:53-56) (emphasis added.)

16 (ii) “identification encoder” **112**

17 The component directly connected to the source material library in the patentees’
18 coined “transmission system” is the identification encoder 112. The identification encoder is an
19 essential component of every transmission system because, *inter alia*, the assignment of
20 identification codes is mandatory:
21

22 Prior to being made accessible to a user of the transmission and receiving system of
23 the present invention, the item **must** be . . . given a unique identification code by
24 identification encoder **112** (6:35-39) (emphasis added.)
25
26
27

1 It is essential not just that the “transmission system” include an identification
2 encoder, but that the identification encoder be directly connected to the source material library,
3 because it is the identification encoder which retrieves the information from the items which are
4 stored in the source material library:
5

6 . . . **identification encoding means for retrieving the information for the items**
7 **from the source material library means** and for assigning a unique identification
code to the retrieved information (2:30-33) (emphasis added.)

8 . . . the Examiner argues that . . . Lang discloses the recited identification encoding
9 means. This cannot be because **the functions of the identification encoding means**
10 **are to retrieve of [sic] information from the source material library means** and to
assign a unique identification code to the retrieved information. The referenced
11 section of Lang performs neither function. [10/01/1991 Amendment at 19-20
(Benyacar 08/08/2006 Decl., Exh. E, Docket No. 161-6.)]

12 Finally, “[i]n some cases, such as inter-library transfers, incoming materials may be in a previously
13 compressed form . . . In such a case, retrieved items are passed directly from identification encoder
14 **112** to compressed data formatter **117**.” (7:44-50.) Because the specification is clear that at most
15 this will only occur in “some” cases, components 113-116 are necessary components of every
16 transmission system because at least “some” incoming materials will necessarily have to be
17 processed prior to storage. Moreover, when information has been previously compressed, it must be
18 passed directly to the compressed data formatter 117, as neither the time encoder 114 nor the
19 compression means 115/116 are capable of processing such previously-compressed information.
20 The identification encoder must therefore also have the ability to pass information directly to the
21 compressed data formatter 117.
22
23
24
25
26
27
28

1 (iii) “converter” 113

2 The information retrieved from the source material library by the identification
3 encoder can be in many different formats. The function of converter 113 is to place the information
4 into a single “predetermined format” (referred to as “formatted data”) which will be recognized by
5 all of the components which subsequently process the information.⁴ For example, both the time
6 encoder 114 and compression means 115/116 are described only as operating on “formatted data.”⁵
7 (2:36-41; 7:64-8:1; 8:57-9:2; 19:3-4; 19:5-7.) Because the converter 113 converts information
8 retrieved from the source material library by the identification encoder, it must be placed after the
9 identification encoder. Furthermore, because the converter 113 converts the retrieved information
10 into the predetermined format used by all of the remaining components in the transmission system, it
11 must be placed before all the remaining components. Therefore, the converter must be placed
12 immediately after the identification encoder and before any of the remaining components of the
13 transmission system, exactly as is shown in figure 2.

17
18 ⁴ If the information retrieved from the source material library is in digital form, converter
19 123 converts the signal “to a *proper* voltage” and “sets the *correct* bit rates and encodes
20 into least significant bit (lsb) first pulse code modulated (pcm) data” (7:1-6) (emphasis
21 added.) When the information retrieved from the source material library by the
22 identification encoder is in analog form, the converter 123 first converts it to digital form,
23 and then performs the same processing as is performed on information retrieved from the
24 source material library in digital form (7:12-18.) Thus, irrespective of the type or format
25 of the information which enters the converter, the output of the converter is in a single,
26 predetermined format.

27
28 ⁵ Although the specification states that “[t]he data arriving from time encoder **114** may be
at various frame rates and of various formats” (8:62-64), the paragraph beginning at 8:67
teaches that “format” here refers to aspect ratio and frame rates, not the “predetermined
format” of the data.

1 Converter 113 is also responsible for separating the audio and video components of
2 audio/video information. (7:6-10; 7:30-33.) Both the time encoder 114 and the compression means
3 115/116, which follow converter 113, operate on separated audio-only and video-only streams.
4 (8:16-19; 8:67-10:16.) “Time encoding allows [subsequent] realignment of the audio and video
5 information in the compressed data formatting section **117** after separate audio and video
6 compression processing by precompression processor **115** and compressor **116.**” (8:2-6.) This
7 separate processing of audio and video information is clearly shown in figure 2a. Neither the time
8 encoder 114 nor the compression means 115/116 will work if the information is not first separated
9 into audio-only and video-only streams. This is an additional reason the converter 113 must be
10 located in between the identification encoder and the time encoder, exactly where it is placed in the
11 only disclosed embodiment.
12

13
14 In summary, converter 113 (i) places the information retrieved from the source
15 material library into a single predetermined format that can be recognized by the components which
16 follow it; and (ii) creates separate audio-only and video-only streams, as required by the time
17 encoder 114 and compression means 115/116. The converter must therefore be directly connected to
18 and immediately follow the identification encoder (which retrieves the information from the source
19 material library). None of the other components of the transmission system will work otherwise.
20

21 While the existence of a converter 113 and its placement immediately following the
22 identification encoder are both essential, in general any one of three different types of optional
23 converters can be employed: 1) an analog-only converter, for use when the information stored on the
24 items in the source material library is always analog; 2) a digital-only converter, for use when the
25
26
27

information stored on the items in the source material library is always digital; and 3) a converter that handles both analog and digital information, as depicted in figure 2a. The specification states:

The items stored in source material library **111** and encoded by identification encoder **112** may be in either analog or digital form. Converter **113** therefore includes analog input receiver **127** and digital input receiver **124**. *If items have only one format, only one type of input receiver 124 or 127 is necessary.* (Col. 6: 62-68) (emphasis added.)

Each of these three implementations of converter 113 is depicted below:

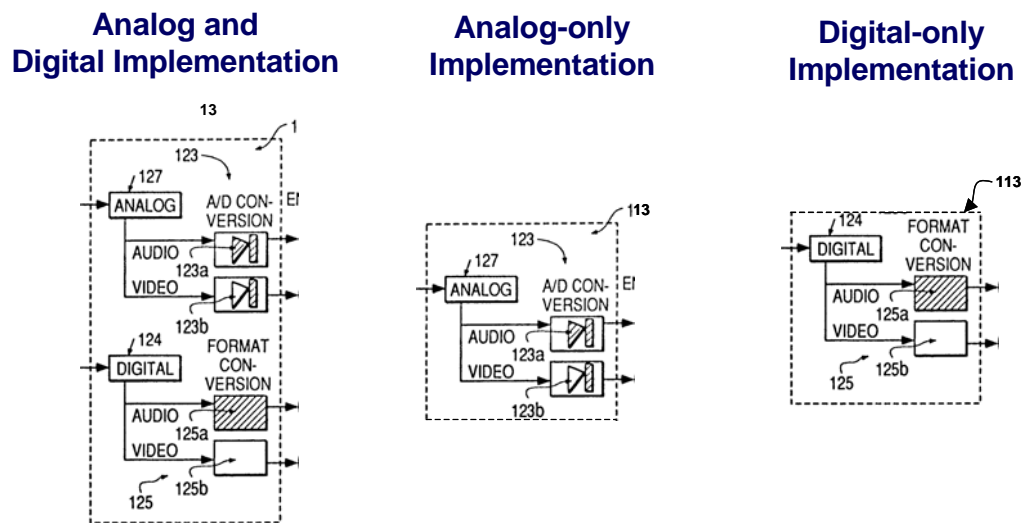


FIGURE B

Unless a claim limits the type of converter to be used, any one of these three implementations would be covered by the converter component of a “transmission system.”

(iv) “time encoder” 114

“Time encoding by time encoder **114** makes itmes [sic] and subsets of items retrievable and addressable throughout the transmission system **100**.” (8:50-52.) “[S]ystem addressing of particular data bytes, and user addressing of particular portions of items are all made possible through time encoding.” (8:20-23.) Because, without the time encoder, it would not be

possible to address and retrieve requested data blocks for transmission to the user, the time encoder is an essential component of the patentee-defined transmission system.⁶

As described in section I(A)(iii) above, time encoder 114 is only capable of operating on audio-only and video-only streams that are in a predetermined format. Therefore, the time encoder must be placed after the converter 113, which creates these streams. In addition, the time codes must be assigned to the separate audio and video streams prior to compression by compression means 115/116 (described in the next section), because (i) it is the prior assignment of time codes that permits realignment of audio and video data after they are separately compressed (8:2-6; 8:20-23); and (ii) it is the prior assignment of time codes that permits compression to occur in the time dimension. (8:52-55.) Therefore, it is essential that the time encoder 114 be placed exactly where it is shown in figure 2 - immediately after the converter 113 and immediately before the compression means 115/116. The specification does not describe any other location for the time encoder in the “transmission system.”

(v) “precompression processor” 115 and “compression processor” 116

Compression, and storage in compressed form, are essential aspects of the “transmission system.” As the specification says, “[p]rior to being made accessible to a user of the transmission and receiving system of the present invention, the item **must** be stored in at least one compressed data library **118**.” (6:35-38) (emphasis added.) Obviously, information must be compressed before it can be stored in a compressed data library.

⁶ As previously explained by the Round 3 defendants, however, sequencing other than by time would also permit retrieval of requested data blocks. However, sequencing with time encoder 114 is the only form of sequencing disclosed in the specification.

1 Compression is performed by both the precompression processor 115 and the
2 compression processor 116 (7:46-47; 8:5-6; 8:57-62), and the specification is clear that the
3 compression processor 116 “requires” preprocessing by precompression processor 115. (8:67-9:2.)
4 Therefore, the tandem of precompression processor 115 and compression processor 116 (the
5 “compression means”) are essential components of the transmission system.
6

7 It is also essential that the compression means be placed precisely where it is placed
8 in the only embodiment disclosed in the specification - in between the time encoder 114 and the
9 compressed data storage means 117/118. For the reasons discussed in sections I(A)(iii) and (iv)
10 above, the compression means must be placed after the time encoder, and it is self evident that the
11 information must be compressed before it can be stored in compressed form in a compressed data
12 library.
13

14 **(vi) “compressed data formatter” 117 and “compressed data library” 118**

15 As described above, the specification unambiguously states that storage of
16 information in compressed form is mandatory. (6:35-38.) Both the compressed data formatter 117
17 and compressed data library 118 are required to perform this storage. Before an audio/video item
18 can be stored for access by a user, its audio and video constituents (which were separated by
19 converter 113 for processing by time encoder 114 and compression means 115/116) must be
20 realigned. Compressed data formatter 117 performs this function. (8:2-6.) Moreover, the
21 compressed data formatter 117 organizes all of the information relating to the item requested by the
22 user as a single file for storage in the compressed data library 118. (10:23-30.) This is the reason
23 the patentees collectively referred to compressed data formatter 117 and compressed data library 118
24
25
26
27
28

1 as the “compressed data storage means.” (10:25-26 and 10:34-39.) For all of these reasons, the
2 tandem of compressed data formatter 117 and compressed data library 118 are essential components
3 of the transmission system defined by the patentees in the specification.
4

5 It is also essential that the “compressed data storage means” be placed precisely
6 where it is placed in the only embodiment disclosed in the specification - after the compression
7 means 115/116 and before the transmitter means 119/122. It is common sense that information must
8 be compressed before it can be stored in a compressed form, and that it must be stored before it can
9 be retrieved from storage for transmission to a requesting user.
10

11 While the existence and placement of compressed data formatter 117 and compressed
12 data library 118 are essential, however, compressed data library 118 can consist of one or more than
13 one compressed data libraries. (10:50-54.) This optional implementation is reflected in Figure A
14 above with the depiction of multiple optional additional libraries.

15 **(vii) “transmission format conversion CPU” 119 and “transmitter” 122**

16 Transmission of information to a user after processing and storing are completed is an
17 essential aspect of the disclosed transmission system. Without it, the system has no practical use.
18 Thus, it is essential that the last component of the patentee-defined transmission system be the
19 transmitter means.
20

21 The transmitter means disclosed consists of two components - a transmission format
22 conversion CPU 119, which “converts the compressed formatted data block into a format suitable
23 for transmission” (that is, formats it for the specific type of communication channel to be used) (col.
24 13:40-45; *See also* 15:55-57; 15:67-16:3), and the transmitter 122 itself. Because information
25
26
27
28

1 cannot be transmitted if it is not in “a format suitable for transmission,” both components 119 and
2 122 operating in tandem are essential to the transmission system. This is why the patentees
3 themselves referred to the combination of these two components as the “transmitter means.” [See
4 Original Claims as filed with the application for U.S. Patent No.5,132,992 (Block 05/18/2007 Decl.,
5 Exh. 1, Docket No. 238-2)] (Originally filed claim 2 states that the “transmission format means” is
6 part of the “transmitter means.”)
7

8 The specification discloses that the transmission system permits information to be
9 sent to users over many different types of communication channels (each of which requires a
10 particular type of transmit format conversion CPU 119 and transmitter 122). Indeed, the patentees
11 described one of the important features of their transmission system to be its ability to transmit over
12 whatever communication channel is available at the time:
13

14 **The transmission and receiving system of the present invention preferably**
15 **operates with any available communication channels.** Each channel type is
16 accessed through the use of a communications adaptor board or processor connecting
17 the data processed in the transmission format converter **119** to the transmission
18 channel (15:65-16:3) (emphasis added.)

19 **In a preferred embodiment of the present invention, many forms of**
20 **communication channels may be employed.** Distribution of information is by
21 common carrier communication channels whenever possible. These channels include
22 common telephone service, ISDN and Broadband ISDN, DBS, cable television
23 systems, microwave, and MAN. (16:62-68) (emphasis added.)

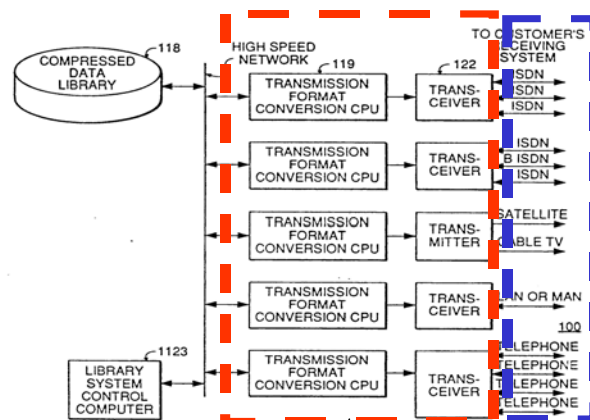
24 The patentees considered the ability of their transmission system to support multiple communication
25 channels to be so important that it is the first stated object of the invention:
26

27 It is therefore an object of the present invention to provide a user with the capability
28 of accessing audio/video material by integrating both accessing and playback controls
into **a system that can use multiple existing communications channels.** (1:57-61)
(emphasis added.)

In order to support these many different channel types, the preferred (and only) embodiment contains many different output ports, so that the transmission system can use whatever type of communication channel is available at the time of transmission:

In order to serve a multitude of channel types, a preferred embodiment of the present invention includes a **multitude of output ports of each type** connected to one or more computers on the transmission and receiving system. (16:16-20) (emphasis added.)

Thus, while availability and use of any specific channel type is optional, the specification is clear that the equipment necessary to support each of these channel types is not optional. The essential transmitter means components and the optional channel types are depicted below:⁷



MANDATORY OPTIONAL
FIGURE C

⁷ Of course, at least one common access line must be present in a transmission system.

1 (viii) “library system control computer” 1123 and “library access interface” 121

2 The capability of the disclosed transmission system to receive and comply with user
3 requests for specific information to be played back at a user-specified time and place was repeatedly
4 described by the patentees as the essential capability which distinguished their system from prior art
5 systems of delivering information to users. The very first sentence of the specification emphasizes
6 the importance of this capability:
7

8 The present invention relates generally to an audio and video transmission and
9 receiving system, **and more specifically to such a system in which the user**
10 **controls the access and the playback operations of selected material.** (1:6-10)
(emphasis added.)

11 The patentees described their invention in similar terms in the Petition to Make Special:

12 The present invention is directed to an audio and video transmission and receiving
13 system in which the user controls the access and the playback operations of selected
14 material. The present invention affords the user greater access to and control over
15 audio and video information than is possible in conventional systems. With the
16 present invention, a user can request audio and video information to be sent to a
selected destination. Further, the user is not constrained to having programs played at
a particular time. . . [Petition to Make Special at 2 (Benyacar 05/08/2006 Decl., Exh.
B, Docket No. 161-3.)]

17 Each of the prior art references discussed in the patent is distinguished based on its inability to
18 accommodate user control of when and/or where selected content is played (1:8-56.) Every stated
19 object of the invention relates to complying with user requests for information or processing user-
20 requested information (1:57-2:15), and every disclosed method calls for transmission from the
21 transmission system to the reception system in response to a user request. (2:49-61; 18:46-59; figure
22 7.) Indeed, the specification does not describe any way of determining what to transmit other than
23
24
25
26
27
28

1 transmitting information selected by a user making a request to the transmission system. Thus, the
2 ability to receive and comply with user requests for information is essential to the alleged invention,
3 and the components of the transmission system responsible for receiving and complying with user
4 requests are therefore essential components of a transmission system.

5
6 While different “access methods” are described in the specification (user requests
7 sent directly to the transmission system and indirectly to the transmission system via a remote order
8 processing system), all disclosed access methods use the “library access interface” 121 and the
9 “library system control computer” 1123:

10 The library access interface **121** receives transmission requests either directly from
11 the users or indirectly by remote order processing and item database **300**. (13:37-40.)

12 In a preferred embodiment of the present invention, customer access of an item stored
13 in compressed data library **118** via the library access interface **121** may be performed
14 in various ways. (13:48-51.)

15 All transmission requests from the access methods are placed into a transmission
16 queue managed by the library system control computer **1123**. (15:33-35.)

17 “Library access interface” 121 and “library system control computer” 1123 are therefore essential
18 components for handling user requests.

19 The library system control computer “controls the distribution of the requested items
20 to the reception system **200** of the user.” (15:36-37.) This includes control of the compressed data
21 library and the placement of information on a specific distribution channel(s). (15:33-54.) Thus,
22 just as is depicted in figure 2, the library system control computer must be directly connected to both
23 the compressed data library and to each of the transmission format conversion CPUs.

1 User requests for information are passed directly or indirectly to library access
2 interface 121. However, the specification is unclear as to whether library access interface 121 is in
3 the transmission system or the reception system. The Round 3 defendants previously argued, and
4 the specification states (17:44-46), that it is in the reception system. Wherever it is, though, it is a
5 required component that must send the user requests to the library system control computer 1123
6 which manages these requests (15:23-27), and thus must be connected to the library system control
7 computer as depicted in figure 2b.⁸

9 **B) Construction of “transmission system”**

10 **(i) basic transmission system**

11 All of the asserted method claims of the ‘992, ‘275 and ‘863 patents contain steps
12 which must be performed by, on or with a “transmission system.” (3rd CCO at 5, 29, 34, 37; 4th CCO
13 at 5-6; 7/21/06 Stipulation (Docket No. 187).) The basic transmission system is therefore a
14 limitation of all of these claims. The Court should provide a base construction of “transmission
15 system” which applies to *all* of the claims as follows:

16 the transmission system of the present invention as described in the specification,
17 comprising all necessary components to perform each step required to be performed
18 by, on or with a transmission system. Every claim requires that the transmission
19 system have the following components directly interconnected in the order identified:

20 a source material library (element 111 of Fig. 2a);

21 an identification encoder (element 112 of Fig. 2a);

22
23 ⁸ Thus, if the Court determines that the library access interface 121 is in the receiving
24 system instead of the transmission system, it should conclude that it is an essential
25 element of the receiving system and include it in the base construction of “receiving
26 system.”

a converter (element 113 of Fig. 2a);
a time encoder (element 114 of Fig. 2a);
a precompression processor (element 115 of Fig. 2a);
a compressor (element 116 of Fig. 2a);
a compressed data formatter (element 117 of Fig. 2a);
a compressed data library (element 118 of Fig. 2b);
transmission format conversion CPUs (elements 119 of Fig. 2b);
transceivers and transmitters (elements 122 of Fig. 2b).

The transmission system also includes a library system control computer (element 1123 of Fig. 2b) directly connected to both the compressed data library and to the transmission format conversion CPUs, and a library access interface (element 121 of Fig. 2b) directly connected to the library system control computer.⁹

‘992 claims 19, 22, 41, 45 and 46, ‘275 claims 2 and 5 and ‘863 claims 14-19 are not limited specifically to any of the optional implementations of converter 113, compressed data library 118 or “common access lines.”¹⁰ The Court should therefore add the following additional language

⁹ As explained above, the specification is clear that interconnected components 111-119 and 122 are essential (i.e. not described as optional) components of the patentee-defined “transmission system” - no reference to specific claim steps is required. In addition, as demonstrated in Appendix A, all of these components are *also* necessary to perform the specific claim steps that must be performed by, on or with a “transmission system.” The latter is not true of components 121 and 1123. ‘992 claims 41-45 and ‘863 claims 14-19 do not require user requests, and therefore on their face do not require components 121 and 1123. These two components are nonetheless included in the construction of “transmission system” in these claims because the specification describes them as essential. *See* Section I(A)(viii) *supra*.

¹⁰ Appendix A contains the analysis of each individual claim.

1 to its construction of these claims to indicate that all of the disclosed implementations of those
2 components are covered by those claims:

3 The converter **113** must include (a) digital input receiver **124** and formatter **125**
4 (which includes a digital audio formatter **125a** and a digital video formatter **125b**);
5 OR (b) analog input receiver **127** and analog-to-digital converter **123** (which includes
6 analog audio converter **123a** and analog video converter **123b**); OR (c) both the
components identified in (a) and the components identified in (b).

7 The compressed data library can include a single compressed data library or multiple
8 compressed data libraries.

9 **(ii) claims limited to optional implementations of the transmission system**

10 **(a) '992 claim 20**

11 '992 claim 20 requires both analog and digital inputs to the converter 113.

12 Consequently, the Court should add the following additional language to its construction of that
13 claim:

14 The converter **113** must include BOTH (a) digital input receiver **124** and formatter
15 **125** (which includes a digital audio formatter **125a** and a digital video formatter
16 **125b**); AND (b) analog input receiver **127** and analog-to-digital converter **123** (which
includes analog audio converter **123a** and analog video converter **123b**.)

17 The compressed data library can include a single compressed data library or multiple
18 compressed data libraries.

19 **(b) '992 claim 21**

20 '992 claim 21 requires that the compressed data library include more than one
21 compressed data library. Consequently, the Court should add the following additional language to
22 its construction of that claim:

23 The converter **113** must include (a) digital input receiver **124** and formatter **125**
24 (which includes a digital audio formatter **125a** and a digital video formatter **125b**);
25 OR (b) analog input receiver **127** and analog-to-digital converter **123** (which includes
26
27
28

1 analog audio converter **123a** and analog video converter **123b**); OR (c) both the
2 components identified in (a) and the components identified in (b).

3 The compressed data library must include multiple compressed data libraries.

4 **(c) '992 claim 42**

5 '992 claim 42 requires an analog input to the converter 113, but the existence of a
6 digital input is optional. Consequently, the Court should add the following additional language to its
7 construction of that claim:
8

9 The converter **113** must include at least analog input receiver **127** and analog-to-
10 digital converter **123** (which includes analog audio converter **123a** and analog video
11 converter **123b**.)

12 The compressed data library can include a single compressed data library or multiple
13 compressed data libraries.

14 **(d) '992 claims 43-44**

15 '992 claims 43-44 require a digital input for the converter 113, but the existence of an
16 analog input is optional. Consequently, the Court should add the following additional language to
17 its construction of that claim:

18 The converter **113** must include at least digital input receiver **124** and formatter **125**
19 (which includes a digital audio formatter **125a** and a digital video formatter **125b**.)

20 The compressed data library can include a single compressed data library or multiple
21 compressed data libraries.

22 **(e) summary of claims**

23 A table summarizing the construction of “transmission system” applicable to each of
24 these claims appears below:
25
26
27
28

CLAIMS	CONSTRUCTION
All claims	Require the “basic” transmission system described above. This basic transmission system includes components 111-119 and 122 of figure 2 directly connected in numerical order, component 1123 directly connected to both the compressed data library 118 and the transmission format conversion CPUs 119, and component 121 directly connected to component 1123.
‘992 claims 19, 22, 41, 45-46; ‘275 claims 2 and 5; ‘863 claims 14-19	The transmission system can contain any one of the options for converter 113, compressed data library 118 and “common access lines” described in sections I(A) (iii), (vi) and (vii).
‘992 claim 20	The transmission system must contain the converter 113 which has both analog and digital inputs, described in section I(A)(iii). The transmission system can contain any one of the options for compressed data library 118 and “common access lines” described in sections I (vi) and (vii).
‘992 claim 21	The compressed data library 118 of the transmission system must contain a plurality of compressed data libraries. The transmission system can contain any one of the options for converter 113 and “common access lines” described in sections I (iii) and (vii).
‘992 claim 42	The transmission system must contain a converter 113 which has an analog input. The transmission system can contain any one of the options for compressed data library 118 and “common access lines” described in sections I (vi) and (vii).

CLAIMS	CONSTRUCTION
'992 claims 43-44	The transmission system must contain a converter 113 which has a digital input. The transmission system can contain any one of the options for compressed data library 118 and “common access lines” described in sections I (vi) and (vii).

II) RECEIVING SYSTEM

As it did with respect to “transmission system,” the Court requested that the parties brief which components of the disclosed “receiving system” are essential.¹¹ (5th CCO at 14.) We provide a description of the essential components of the basic receiving system in Section II(A) below. Appendix B contains the claim charts requested by the Court identifying which components of the disclosed receiving system are necessary to perform each of the claim steps required to be performed by, on or with a receiving system. Section II(B) contains the construction of “receiving system” for these claims.

Before turning to that analysis, however, there are a number of essential functions of a “receiving system” that cannot be performed by the disclosed receiving system, since there are no components described in the specification or depicted in figure 6 which perform these functions. Essential functions which cannot be performed by the disclosed receiving system include (but are not limited to) the following:

¹¹ The Court has previously construed the terms “reception system” and “receiving system” to have the same meaning. (3rd CCO at 8-11.) Therefore, the analysis herein with respect to the claim term “receiving system” applies equally to the claim term “reception system.”

- 1) “The reception system **200** has playback controls similar to the controls available on a standard audio/video recorder. These include: play, fast forward, rewind, stop, pause, and play slow.” (17:35-38.) There are no components described in the specification or depicted in figure 6 which allow such playback control;
- 2) There are no components described or depicted in figure 6 to control retrieval of information from storage 203. For example, there are no components in the reception system to instruct storage 203 which information is to be retrieved or when;
- 3) A reception system must be capable of confirming receipt of the information sent to it, either by sending a message back to the transmission system or by answering a call placed to it by the transmission system. (17:1-24.) There are no components described in the specification or depicted in figure 6 which perform such reception confirmation procedures;
- 4) Receiving systems must be capable of determining if information has been copy protected and, if so, prevent copying by the user. (5:46-58; 17:28-34.) There are no components described in the specification or depicted in figure 6 which either detect if information from the transmission system is copy protected or prevent the user from copying information which is copy protected.

For these and other reasons, the claim terms “receiving system” and “reception system” lack written description, are not enabled and otherwise fail to satisfy the requirements of 35 U.S.C. § 112. As with “transmission system,” the Round 3 defendants will make appropriate § 112 motions during the period designated for such motions by the Court.

A) Essential Interconnected Components of the Patentee-Defined “receiving system”

(i) “transceiver” 201

“The reception system **200** includes transceiver **201** which receives the audio and/or video information transmitted by transmitter **122** of the transmission system **100**.” (18:3-6.) Since the transceiver is the component that receives the information sent from the transmission system, it is the essential first component of the receiving system.

1 **(ii) “receiver format converter” 202**

2 The receiver format converter 202 converts the received information into “a format
3 suitable for storage and processing” as well as “a format suitable for playback by the user in real
4 time.” (3:3-7; 18:9-13.) Since the information cannot be stored, processed or played back until it is
5 formatted, the receiver format converter 202 is an essential component of the receiving system
6 which must be placed immediately after the transceiver 201 so that the information can be formatted
7 as soon as it is received (until it is formatted, nothing can be done with it.)

8
9 **(iii) “storage” 203**

10 A user can indicate in his request to the transmission system for information that he
11 wishes playback of the requested information at a designated time later than the time when the
12 request is made. If the user does include a later playback time in that request, the information will
13 be sent by the transmission system to the receiving system and stored in storage 203 until the time
14 designated by the user in his request. (18:14-21.) Thus, it is storage 203 that enables the user to
15 view his selection at the time he selected when ordering. Because, as described above, this is an
16 essential aspect of the invention, storage 203 is an essential aspect of the receiving system.¹²
17
18
19
20
21

22 ¹² Although the specification alludes to a “non-buffering” receiving system (4:34), the
23 specification does not describe the components of such a receiving system. In any event,
24 the issue of whether storage device 203 is described in the specification as an essential
25 component of a receiving system need not actually be decided, as every asserted claim
26 which calls for steps to be performed by, on or with a receiving system affirmatively
27 requires that the receiving system store the information.
28

Storage 203 must also immediately follow receiver format converter 202, as storage of information in compressed form is an important aspect of the receiving system. For example, the patentees distinguished the prior art Walter reference in the Petition to Make Special:

Walter shows memory module 102 in the data receiving system 14, but there is no indication in Walter that compressed data is stored in memory module 102. Because non-compressed data is stored in the memory module, the user is limited as to the quantity of data which may be stored therein. [Petition to Make Special at 10 (Benyacar 05/08/2006 Decl., Exh. B, Docket No. 161-3).]

(iv) “data formatter” 204

“When playback is requested, the compressed formatted data blocks are sent [from storage 203 to] data formatter **204**. Data formatter **204** processes the compressed formatted data blocks and distinguishes audio information from video information.” (18:22-26.) The audio and video information must be separated prior to decompression, as decompressor 205 operates on separate audio-only and video-only streams. (18:27-29; Fig. 6.) Thus, the data formatter 204 must be placed after storage 203 and before decompressor 205, exactly as depicted in figure 6 (the only receiving system described in the specification.)

(v) “decompressor” 205

The signals from the receiving system are “output to a playback system such as a TV or audio amplifier. They may also be sent to an audio/video recorder of the user.” (18:36-38.) The decompressor must therefore be placed before the audio and video output converters, as televisions, audio amplifiers and audio/video recorders cannot reproduce compressed information. The information must be decompressed before it leaves the receiving system.

1 **(vi) output converters 211-214**

2 After decompression, “[t]he decompressed video data is then sent simultaneously to
3 converter **206** including digital video output converter **211** and analog video output converter **213**.
4 The decompressed audio data is sent simultaneously to digital audio output converter **212** and analog
5 audio output converter **214**. The outputs from converters **211-214** are produced in real time.” (18:29-
6 35.) The information is simultaneously sent to a variety of different types of output ports so that the
7 receiving system can be connected to a number of different types of devices depending on the user’s
8 needs. (18:36-45.) The patentees did not disclose an embodiment that does not include these output
9 converters. Thus, output converters 211-214 are essential components of every receiving system.
10

11 In addition, figure 6 depicts an unnumbered output for compressed data which is not
12 described in the specification. Because there is no indication that this component is optional, it must
13 be included in the construction of “receiving system.”
14

15 **(vii) “user/computer interface” 207**

16 The specification does not refer to the “user/computer interface” 207 depicted in
17 figure 6, although it does mention “specialized interfaces built into the reception system **200** for the
18 user.” (14:66-67.) As with the depiction of the output for compressed data, the lack of
19 corresponding explanation in the specification of the “user/computer interface” component of the
20 receiving system puts the Court and the defendants at a disadvantage in attempting to construe
21 claims which require steps to be performed by, on or with a receiving system. Nonetheless, the
22 inclusion of “user/computer interface” 207 in figure 6 requires that it be included in the construction
23 of “receiving system.”
24
25
26
27
28

B) Construction of “receiving system”

‘992 claim 19, ‘275 claims 2 and 5 and ‘863 claims 14 and 17 contain steps required to be performed by, on or with a receiving system. The specification does not describe any components of the receiving system as optional. Therefore, the Court should construe “receiving system” in these claims to mean the basic receiving system described in Section II(A):

the receiving system of the present invention as described in the specification, comprising all necessary components to perform each step required to be performed by, on or with a receiving system. With respect to ‘992 claim 19, ‘275 claims 2 and 5 and ‘863 claims 14 and 17, a receiving system must include the following components, directly interconnected in the order identified:

a transceiver (element 201 of Fig. 6);

a receiver format converter (element 202 of Fig. 6);

storage (element 203 of Fig. 6);

a data formatter (element 204 of Fig. 6);

a decompressor (element 205 of Fig. 6);

a converter (element 206 of Fig. 6). The converter must include a separate digital video output converter (element 211 of Fig. 6), analog video output converter (element 213 of Fig. 6), digital audio output converter (element 212 of Fig. 6), analog audio output converter (element 214 of Fig. 6), and an output for compressed data (unnumbered element labeled “compressed” in Fig. 6); and

a user/computer interface (element 207 of Fig. 6).¹³

¹³ As explained above, the specification is clear that interconnected components 201-206 are essential components of the patentee-defined “receiving system” - no reference to specific claim steps is required. In addition, as demonstrated in Appendix B, all of these components are *also* necessary to perform the specific claim steps that must be performed by, on or with a “receiving system.” The latter is not true of component 207 and the compressed output. These two components are nonetheless included in the base

(continued...)

1
2 **CONCLUSION**

3 For the reasons described herein and in the accompanying Appendix A and B, the
4 Court should construe “transmission system” as set forth in Section I(B) above and “receiving
5 system” as set forth in Section II(B) above. In addition, although the Court indicated that it intends
6 to defer its construction of these terms “until the Court is called upon to determine whether an
7 alleged infringer is using a ‘transmission system’” (5th CCO at 13 n.12), the Round 3 defendants
8 respectfully request that the Court not wait until the infringement stage of this action to issue its
9 constructions. The Court indicated at the August 17, 2007 hearing that after claim construction is
10 completed, the parties should begin filing dispositive motions. The Court’s construction of
11
12
13
14
15
16
17
18
19
20
21
22

23
24 ¹³ (...continued)

25 construction of “receiving system” because they are in the only embodiment disclosed in
26 the specification, and are not described as being optional.
27
28

1 “transmission system” and “receiving system” will give rise to, and will be relevant to, these
2 dispositive motions.

3 Respectfully submitted,

4 Dated: November 2, 2007

KAYE SCHOLER LLP

6 /s/ David S. Benyacar
7 David S. Benyacar
8 Daniel L. Reisner
425 Park Avenue
New York, NY 10022-3598
9 Tel.: (212) 836-8000
10 Fax: (212) 836-8689
dbenyacar@kayescholer.com
11 [dreisner @kayescholer.com](mailto:dreisner@kayescholer.com)

12
13 *Attorneys for Defendant*
Time Warner Cable Inc.

14 GOODWIN PROCTER LLP

15
16 /s/ Benjamin Hershkowitz
17 Benjamin Hershkowitz
John F. Petrsoric
18 599 Lexington Avenue
New York, NY 10022
19 Tel.: (212) 813-8800
20 Fax: (212) 355-3333
bhershkowitz@goodwinprocter.com
21 jpetrsoric@goodwinprocter.com

22
23 *Attorneys for Defendant*
CSC Holdings, Inc.